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Please add the following new claims:

- --38. The method of claim 18, wherein said organic group is substituted with the functional group having the formula R, OR, COR, COOR, OCOR, a carboxylate salt, halogen, CN, NR₂, SO₃H, a sulfonate salt, OSO₃H, a OSO₃ salt, NR(COR), CONR₂, NO₂, PO₃H₂, a phosphonate salt, a phosphate salt, N=NR, NR₃+X', PR₃+X', S_kR, SSO₃H, a SSO₃ salt, SO₂NRR', SO₂SR, SNRR', SNQ, SO₂NQ, CO₂NQ, S-(1,4-piperazinediyl)-SR, 2-(1,3-dithianyl) 2-(1,3-dithiolanyl), SOR, or SO₂R, wherein R and R', which are the same or different, are independently hydrogen, branched or unbranched C₁-C₂₀ substituted or unsubstituted, saturated or unsaturated hydrocarbon, k is an integer ranging from 1-8, anion X' is a halide or an anion derived from a mineral or organic acid, Q is (CH₂)_w, (CH₂)_wO(CH₂)_z, (CH₂)_wNR(CH₂)_z, or (CH₂)_wS(CH₂)_z, where w is an integer from 2 to 6 and x and z are integers from 1 to 6.
- 39. The method of claim 38, wherein said hydrocarbon is alkyl, alkenyl, alkynyl, substituted or unsubstituted or unsubstituted or unsubstituted heteroaryl, substituted or unsubstituted alkylaryl, or substituted or unsubstituted arylalkyl.
- 40. The method of claim 18, wherein said organic group is an aromatic group of the formula AyAr- wherein Ar is an aromatic radical and A is a substituent on the aromatic radical.
- 3 41. The method of claim 40, wherein the substituent A is a linear, branched, or cyclic hydrocarbon radical.
- A2. The method of claim 40, wherein the substituent A is a linear, branched, or cyclic hydrocarbon containing 1 to 20 carbon atoms.
- The method of claim 40, wherein said Ar is phenyl, naphthyl, anthracenyl, phenanthrenyl, biphenyl, pyridinyl, benzothiadiazolyl, or benzothiazolyl.





Amendment

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The method of claim 45, wherein the substituent A is a linear, branched, or cyclic hydrocarbon containing 1 to 20 carbon atoms and Ar is phenyl, naphthyl, anthracenyl, phenanthrenyl, biphenyl, pyridinyl, benzothiadiazolyl, or benzothiazolyl.

- 45. The method of claim 18, wherein said organic group is a C₁-C₁₂ alkyl group having at least one acidic group having a pKa of less than 11 or at least one salt of an acidic group having a pKa of less than 11, or a mixture thereof.
- 46. The method of claim 18, wherein there is more than one type of organic group attached to said carbonaceous material.
- 47. The method of claim 18, wherein some of the carbonaceous material has been modified with one organic group and another portion of the carbonaceous material has been modified with a different organic group.
- 48. The method of claim 38, wherein there is more than one type of organic group attached to said carbonaceous material.
- The method of claim A0, wherein some of the carbonaceous material has been modified with one organic group and another portion of the carbonaceous material has been modified with a different organic group.—

